

MATERIAL SAFETY DATASHEET

Pyrogard Fire Foam

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1. SUBSTANCE IDENTIFICATION

Product Name	Pyrogard Fire Foam
Product Code	Foam-750
Use/Description	Quick setting one part polyurethane foam with fire retardant properties
Company Name	Boss Fire & Safety Unit 8 / 15-23 Kumulla Rd Caringbah NSW 2229 AUSTRALIA Ph 1300 502 677 +612 9531-8591

2. CHIP/CLP, MOST IMPORTANT ADVERSE EFFECTS

Classification under CHIP	F+: R12; Xi: R36/37/38; Xn: R40; Sens.: R42/43; Xn: R48/20
Classification under CLP	Carc. 2: H351; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; Stot RE 2: H373; STOT SE 2: H371
Most Important Adverse Effect	Extremely flammable. Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect. May cause sensitisation by inhalation and skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

3. HAZARD IDENTIFICATION

Main Hazards	Causes skin irritation. May cause an allergic skin reaction, causes serious eye irritation, suspected cause of cancer. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure.
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4. FIRST AID MEASURES (SYMPTOMS)

Skin Contact	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer. If substance is still stuck continue constant softening with hot soapy water.
Eye Contact	Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion	Wash out mouth with water. Do not induce vomiting. If conscious give half a litre of water to drink immediately. Consult a doctor.
Inhalation	Remove casualty from exposure ensuring one's safety whilst doing so consult a doctor.
Signal Words	Warning
Hazards Pictograms	GHS07: Exclamation mark, GHS08: Health hazard
Precautionary Statements	P102: Keep out of reach of children. P260: DO not breathe fume. P280: Wear protective glove. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+313: IF exposed or concerned: Get medical advice/attention. P309+311: IF exposed or if you feel unwell: Call a POISON CENTRE or doctor. P314: Get medical advice if you feel unwell.

Label Elements under CHIP

Hazards Symbols	Extremely flammable. Harmful.
Risk Phrases	R12: Extremely flammable. R36/37/38: Irritating to eyes, respiratory system and skin. R40: Limited evidence of a carcinogenic effect. R42/43: May cause sensitisation by inhalation and skin contact. R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Safety Phrases	S2: Keep out of the reach of children. S36/37: Wear suitable protective clothing gloves. S46: If swallowed, seek medical advice immediately and show this container or label. S51: Use only in well-ventilated areas. S63: In case of accident by inhalation, remove casualty to fresh air and keep at rest.
Precautionary Phrases	Contains isocyanates. See information supplied by manufacturer. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children. Person already sensitized to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (e.g. type A1 according to standard EN 14387) is used.

Hazardous ingredients: DIPHENYLMETHANE -4,4'-DI-ISOCYANATE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
202-966-0	101-68-8	Xn: R40; Xn: R20; Xn: R48/20; Xi: R36/37/38; Sens.: R42/43	Carc. 2: H351; Acute Tox. 4: H332; Eye Irrit 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317; STOT SE 2: H371; STOT RE 2: H373	10-30%

5. FIRST AID MEASURES (ACTION)

Skin Contact	There may be irritation and redness at the site of contact.
Eye Contact	There may be irritation and redness. The eyes may water profusely.
Ingestion	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.
Delayed/Immediate Effects	Immediate effects can be expected after short-term exposure.
Immediate/Special Treatment	Eye bathing equipment should be available on premises.

6. FIRE FIGHTING MEASURES

Extinguishing Media	Alcohol or polymer foam. Carbon dioxide. Dry chemical power. Use water spray to cool containers.
Exposure Hazards	Extremely flammable. In combustion emits toxic fumes. Form explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition & flash back.
Advice for Fire-Fighters	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

7. ACCIDENTAL RELEASE MEASURES

Personal Precautions	If outside do approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Turn leaking containers leak-side up to prevent escape of liquid. Eliminate all source of ignition.
Environmental Precautions	Do not discharge into drains or rivers. Contain the spillage using bunding.
Clean-Up Procedures	Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Do not use equipment in clean-up procedure which may produce sparks. Allow product to solidify and remove it by mechanical means. Remove uncured foam with acetone transfer to a closable, labelled salvage container for disposal by an appropriate method.

8. HANDLING & STORAGE

Handling Requirements	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.
Storage Conditions	Store in cool, dry, well ventilated areas. Keep container tightly closed. Keep away from source of ignition. Prevent the build-up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition. Store in original containers between +5 and +25°C. Storage outside parameters will dramatically reduce shelf life and invalidates all product warranties.
Suitable Packaging	Must only be kept in original packaging.

9. EXPOSURE CONTROL & PERSONAL PROTECTION

Hazardous Ingredients: DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

Exposure limit values

STATE	8 hour TWA:	15 min. STEL	8 hour TWA	15 min. STEL:
UK	0.02 mg/m ³	0.07 mg/m ³	-	-

Respiratory Protection	Respiratory protection not required
Hand Protection	Protective gloves
Eye Protection	Safety glasses. Ensure eye bath is to hand.
Skin Protection	Protective clothing
Engineering Measures	Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

10. PHYSICAL & CHEMICAL PROPERTIES

State	Aerosol
Colour	Pink/Cream
Odour	Barely perceptible odour
Solubility in Water	Insoluble
Viscosity	Highly viscous
Flash Point	-4

11. STABILITY & REACTIVITY

Conditions to Avoid	Heat. Hot surfaces. Sources of ignition. Flames.
Materials to Avoid	Strong oxidizing agents. Strong acids.
Haz. Decomp. Products	In combustion emits toxic fumes of carbon dioxide/carbon monoxide and hydrogen cyanide
Hazardous Reaction	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
Chemical Stability	Stable under normal conditions. Stable at room temperature.
Reactivity	Stable under recommended transport or storage conditions.

12. TOXICOLOGICAL INFORMATION

Effect	Route	Basis
Irritation	OPT INH DRM	Hazardous: calculated
Sensitisation	INH DRM	Hazardous: calculated
Repeated dose toxicity	INH	Hazardous: calculated

12. TOXICOLOGICAL INFORMATION CONTINUES

Skin Contact	There may be irritation and redness at the site of contact.
Eye Contact	There may be irritation and redness. The eyes may water profusely.
Ingestion	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.
Delayed/Immediate Effects	Immediate effects can be expected after short-term exposure.

13. ECOLOGICAL INFORMATION

Persistence & Degradability	No data available
Bio-Accumulative Potential	No data available
Other Adverse Effects	Negligible ecotoxicity. Not dangerous to ozone layer (199/45/EC)
PBT Identification	This substance is not identified as a PBT substance
Mobility	VOC 20%

14. DISPOSAL CONSIDERATIONS

Disposal Operations	Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J L47 of 16/2/2002): 08 05 01 (waste isocyanates)
Disposal of Packaging	Waste material code packaging (91/689/EEC); Council decision 2001/118/EC, O.J L47 of (16/2/2001) 15 01 10 (Packaging containing residues of or contaminated by dangerous substances)
NB	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

15. TRANSPORT

Environmentally Hazardous	No
UN no.	UN 1950
Shipping Name	AEROSOLS
Transport Class	2
Special Precautions	No special precautions
Tunnel Code	D
Transport Category	2

16. REGULATORY INFORMATION

Chemical Safety Information	A chemical safety assessment has not been carried out for the substance or the mixture by the supplier
Other Information	This safety data is prepared in accordance with Commission regulation (EU) No 453/2010. *Indicates text in MSDS which changed since the last revision.

17. ADDITIONAL INFORMATION

Risk Phrases used in s.2 and 3	H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H332: Harmful if inhaled. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335: May cause respiratory irritation. H351: Suspected of cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard> H371: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. R12: Extremely flammable. R20: Harmful by inhalation. R36/37/38: irritating to eyes, respiratory system and skin. R40: Limited evidence of carcinogenic effect. R42/43: May cause sensitisation by inhalation and skin contact. R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Legal Disclaimer	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

LIMITATION

BOSS Fire & Safety Pty Ltd has provided the above information in good faith and to the best of its knowledge. Some of this information is based upon the MSDS and technical information provided by other parties or manufacturers. We believe this information was correct at the time of publication, should any data come to BOSS Fire & Safety's attention relating to the safety or handling of the product described, BOSS Fire & Safety will amend this report.

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FURTHER INFORMATION

To learn more about Pyrogard Fire Foam, see the Technical Data Sheet available at www.bossfire.com.au.

Further information can be provided by contacting BOSS Fire & Safety on:

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